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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/787,485	02/26/2004	Simon Chang	N1085-00199 [TSMC2003-04]	7010
54657	7590	10/19/2005	EXAMINER	
DUANE MORRIS LLP IP DEPARTMENT (TSMC) 30 SOUTH 17TH STREET PHILADELPHIA, PA 19103-4196			ADAMS, GREGORY W	
			ART UNIT	PAPER NUMBER
			3652	

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/787,485	Applicant(s) CHANG ET AL.	
	Examiner Gregory W. Adams	Art Unit 3652	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-23 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peiter (EP 1202325) (previously cited) in view of FIG. 3 (Applicant's Disclosed Prior Art).

With respect to claim 1, Peiter discloses an integrated material transport system comprising a first material transport subsystem 20, 21, second material transport subsystem 10, 11, a shared material transport port 10, and an integrated rail subsystem 10, 11. Further, Peiter discloses servicing a port 31 of a processing machine 30 used by both a first and second transport subsystems, and does not disclose a stocker. Cols. 1-2. Applicant's FIG. 3 teaches a stocker 304 serviced by both first and second transport subsystems such that during production wherein integrated circuits are passed among bays of production tools, processes and processes sequences, stockers for holding material in queue for processing. Applicant's Specification para. [0002-0003]. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Peiter to add a stocker, as per the teachings of Applicants Prior Art, to store material in queue during processing.

With respect to claim 2, Peiter discloses a first material transport subsystem 20, 21 is an intrabay material transport subsystem. Para. [0039].

With respect to claim 3, Peiter discloses a predetermined material stocker 31 is between a production bay 30 and a main corridor.

With respect to claim 4, Peiter discloses a second material transport subsystem 10, 11 is an interbay material transport subsystem. Para. [0039].

With respect to claim 5, Peiter discloses a second material transport subsystem 10, 11 is outside of a production bay and within a main corridor.

With respect to claim 6, Peiter discloses a material transport port 10 has an elongated opening.

With respect to claim 7, Peiter discloses a material transport port 10 is on a main corridor side.

With respect to claim 8, Peiter discloses a ceiling height is 3-5 meters.

With respect to claim 9, Peiter discloses an integrated rail subsystem 10, 11 has two rails 10, 20 at different heights.

With respect to claim 10, Peiter discloses an integrated material transport system comprising a first material transport subsystem 20, 21 having an over head transport module 21 traveling at a first height, second material transport subsystem 10, 11 having an over head shuttle 11 traveling at a second height, one material transfer port 31 used by a first transport subsystem 20, 21 and a second transport subsystem 10, 11, an integrated rail subsystem 10, 11 servicing both a first material transport subsystem 20, 21 and a second transport subsystem 10, 11. Further, Peiter discloses servicing a port

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31 of a processing machine 30 used by both a first and second transport subsystems, and does not disclose a stocker. Cols. 1-2. Applicant's FIG. 3 teaches a stocker 304 serviced by both first and second transport subsystems such that during production wherein integrated circuits are passed among bays of production tools, processes and processes sequences, stockers for holding material in queue for processing. Applicant's Specification para. [0002-0003]. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Peiter to add a stocker, as per the teachings of Applicants Prior Art, to store material in queue during processing.

With respect to claim 11, Peiter discloses a material transport port 10 has an elongated opening.

With respect to claim 12, Peiter discloses a material transport port 10 is on a main corridor side.

With respect to claim 13, Peiter discloses a ceiling height is 3-5 meters 103.

With respect to claim 14, Peiter discloses an integrated rail subsystem 10, 11 has two rails 10, 20 at different heights.

With respect to claim 15, Peiter discloses a method for integrating intrabay and interbay material transport providing a first material transport system 20, 21, providing a second material transport system 10, 11, and providing a shared material transport port 10 and an integrated rail section 10, 11. Further, Peiter discloses servicing a port 31 of a processing machine 30 used by both a first and second transport subsystems, and does not disclose a stocker. Cols. 1-2. Applicant's FIG. 3 teaches a stocker 304

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served by both first and second transport subsystems such that during production wherein integrated circuits are passed among bays of production tools, processes and processes sequences, stockers for holding material in queue for processing. Applicant's Specification para. [0002-0003]. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the apparatus of Peiter to add a stocker, as per the teachings of Applicants Prior Art, to store material in queue during processing.

With respect to claim 16, Peiter discloses a first material transport subsystem 20, 21 is an intrabay material transport subsystem. Para. [0039].

With respect to claim 17, Peiter discloses a predetermined material stocker 31 is between a production bay 30 and a main corridor.

With respect to claim 18, Peiter discloses a second material transport subsystem 10, 11 is an interbay material transport subsystem. Para. [0039].

With respect to claim 19, Peiter discloses a second material transport subsystem 10, 11 is outside of a production bay and within a main corridor.

With respect to claim 20, Peiter discloses a material transport port 10 is sized to accommodate a first material system and a second transport subsystem.

With respect to claim 21, Peiter discloses a material transport port 10 is on a main corridor side.

With respect to claim 22, Peiter discloses a ceiling height is 3-5 meters 103.

With respect to claim 23, Peiter discloses an integrated rail section 10, 11 has two rail subsystem 10, 20 at different heights.

Response to Arguments

Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection. In light of applicants amendment to now include a stocker having a port. It is noted that in response to Applicants argument that Peiter does not include a stocker, Peiter discloses an integrated rail system for delivering integrated circuits to processing stations. Broadly construed a stocker is a processing station when it receives a wafer carrier and queues it until sending it to another processing station.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gregory W. Adams whose telephone number is (571) 272-8101. The examiner can normally be reached on M-Th, 8:30-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GWA


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